

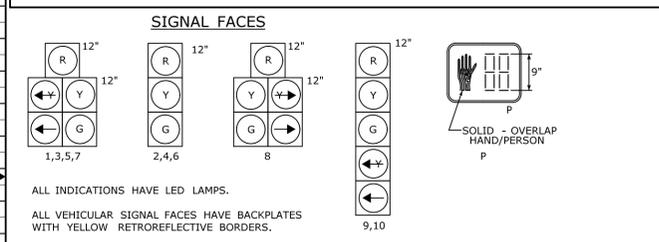
MOVEMENT DIAGRAM															
NTOR	PHASE 1	PRE-EMPT 2	PHASE 2	PRE-EMPT 1	PHASE 3	PHASE 4	PRE-EMPT 3	PHASE 5	PRE-EMPT 1	PHASE 6	PRE-EMPT 2	PHASE 7	PHASE 8	PRE-EMPT 3	PHASE 9
NONE															

TECHNICAL NOTES	
STANDARD OVERLAP SKIP FEATURES APPLY	
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.	
PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.	
COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CHANGE INTERVAL.	

OFFICE RECORD	
REV #	TR # N/A
SM # N/A	SIGNAL REVISED:
REPLACED SIGNAL EQUIPMENT UNDER PROJECT 0172-0476	

F A C E	#	FLASH	PHASE 1		PHASE 2		PHASE 3		PHASE 4		PHASE 5		PHASE 6		PHASE 7		PHASE 8		PHASE 9		
			GRN	CL	GRN																
1	Y	←-R	←-R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
5	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
6	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
7	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
9	Y	←-R	←-R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
10	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
#	P	OFF																			

I N T E R V A L S	MODE	PHASE 1		PHASE 2		PHASE 3		PHASE 4		PHASE 5		PHASE 6		PHASE 7		PHASE 8		PHASE 9	
		MIN GRN	WALK	MIN GRN	WALK	MIN GRN	WALK	MIN GRN	WALK	MIN GRN	WALK	MIN GRN	WALK	MIN GRN	WALK	MIN GRN	WALK	MIN GRN	WALK
MIN GRN	NON-LOCK	5		15		5		7		5		15		5		7		5	
WALK																			
PED CLR																			
VEH EXT		1.5		2.5		1.5		2		1.5		2.5		1.5		2		1.5	
MAX 1		20		40		16		15		12		15		12		15		12	
MAX 2		23		60		23		25		10		60		20		25		20	
YELLOW		3.0		3.8		3.0		4.1		3.0		3.8		3.0		4.1		3.0	
RED			1.0		2.9		3.0		1.2		4.1		1.5		4.1		1.5		4.0
ADD INIT																			0.0
MAX INIT																			
TBR																			
TTR																			
MIN GAP																			
MODE	NON-LOCK			MIN RECALL		NON-LOCK		NON-LOCK		NON-LOCK		MIN RECALL		NON-LOCK		NON-LOCK		NON-LOCK	
INIT START				THIS PHASE								THIS PHASE							



ALL INDICATIONS HAVE LED LAMPS.

ALL VEHICULAR SIGNAL FACES HAVE BACKPLATES WITH YELLOW RETROREFLECTIVE BORDERS.

SIGNAL FACES 9 AND 10 HAVE TUNNEL VISORS

### CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF THE TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM OF 4 FOOT FREE PATH IS UNAVAILABLE, NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

INSTALL PEDESTAL FOUNDATIONS ADJACENT TO LANDING AREAS.

CONSTRUCT TYPE 1 SIDEWALK RAMP PER GUIDE SHEETS.

CONSTRUCT TYPE 5 SIDEWALK RAMP PER GUIDE SHEETS.

CONSTRUCT TYPE 10 SIDEWALK RAMP PER GUIDE SHEETS.

INSTALL SPAN POLE FOUNDATION ADJACENT TO BACK SIDE OF LANDING AREA.

REMOVE EXISTING GRANITE CURB, WIDEN RADIUS ETC. TO BE PAID UNDER ITEM # ETC...

VIDEO DETECTION BY USE OF VIDEO-360 CAMERA CO-MOUNTED WITH TWO VIDEO-THERM CAMERAS ON SPAN POLE ID #082-229-A.

VIDEO DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

COORDINATE AND SCHEDULE THE FOLLOWING WORK BY EVERSOURCE:

- INSTALL GUY WIRE AND ANCHOR FOR CL&P #3459.
- RAISE LUMINAIRE ON CL&P #3459 BY AT LEAST 6".
- INSTALL A RISER ON CL&P #3459.

ESTIMATED LOAD ON UTILITY POLES: CL&P #3459: 4405 LBS.

DETECTORS		SYSTEM LOC		COORDINATION TYPE: NONE					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER	FUNCTION	PROGRAM TIME	DAYS	CYCLE	OFFSET
D1	8' X 35'	VIDEO 360	PRESENCE		FLASH	NONE			
D2	8' X 6'	VIDEO THERM	PRESENCE		MAX 1	ALL OTHER TIMES			
D2A	8' X 6'	VIDEO THERM	PRESENCE		MAX 2	0700 - 0900	M-F		
D2B	8' X 6'	VIDEO THERM	PRESENCE			1400 - 1800			
D2C	8' X 6'	VIDEO THERM	PRESENCE						
D3	8' X 44'	VIDEO 360	PRESENCE						
D4	8' X 40'	VIDEO 360	DELAY 8"						
D5	8' X 35'	VIDEO 360	PRESENCE						
D6	8' X 6'	VIDEO THERM	PRESENCE						
D6A	8' X 6'	VIDEO THERM	PRESENCE						
D6B	8' X 6'	VIDEO THERM	PRESENCE						
D6C	8' X 6'	VIDEO THERM	PRESENCE						
D7	8' X 40'	VIDEO 360	PRESENCE						
D8	8' X 44'	VIDEO 360	PRESENCE						
D8A	SEE PLAN	VIDEO 360	DELAY 8"						

PRE-EMPTION SETTINGS			
	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3
PRIORITY	NO	NO	NO
DET. LOCK	YES	YES	YES
DELAY	0	0	0
ALT. MIN. GRN	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT
ALT. PED. CLR.	22	22	22
HOLD GREEN	15	15	15
HOLD YELLOW	3.0	3.0	4.1
HOLD RED	1.0	1.0	1.5
HOLD PHASE	285	186	488
EXIT PHASE	286	286	286
EXIT CALL	NONE	NONE	NONE

### SIGN LEGEND

REPLACE 31-0307

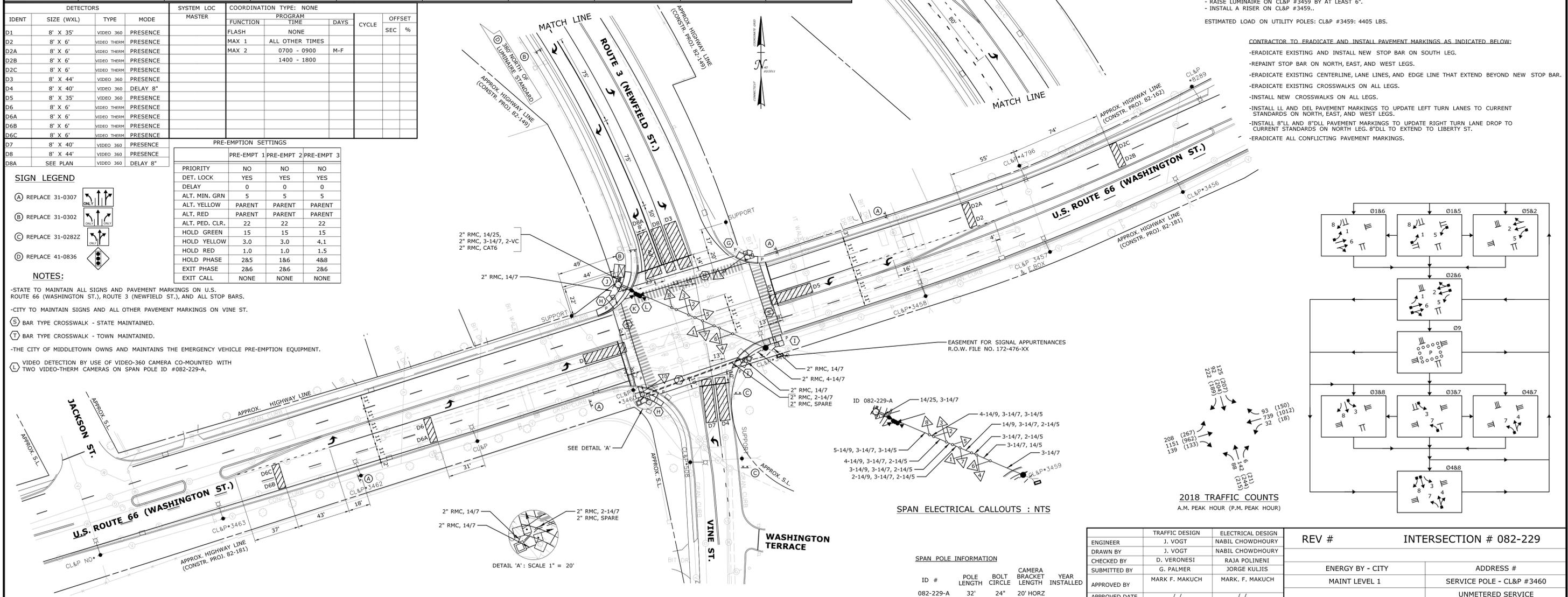
REPLACE 31-0302

REPLACE 31-0282Z

REPLACE 41-0836

### NOTES:

- STATE TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON U.S. ROUTE 66 (WASHINGTON ST.), ROUTE 3 (NEWFIELD ST.), AND ALL STOP BARS.
- CITY TO MAINTAIN SIGNS AND ALL OTHER PAVEMENT MARKINGS ON VINE ST.
- BAR TYPE CROSSWALK - STATE MAINTAINED.
- BAR TYPE CROSSWALK - TOWN MAINTAINED.
- THE CITY OF MIDDLETOWN OWNS AND MAINTAINS THE EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT.
- VIDEO DETECTION BY USE OF VIDEO-360 CAMERA CO-MOUNTED WITH TWO VIDEO-THERM CAMERAS ON SPAN POLE ID #082-229-A.



### SPAN ELECTRICAL CALLOUTS : NTS

ID #	POLE LENGTH	BOLT CIRCLE	CAMERA BRACKET LENGTH	YEAR INSTALLED
082-229-A	32'	24"	20' HORIZ	

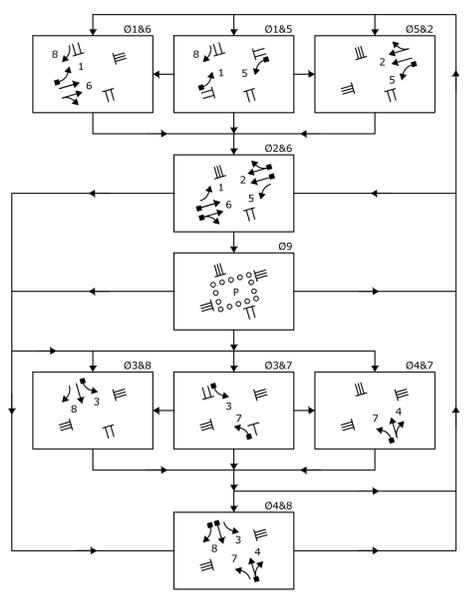
### SPAN POLE INFORMATION

ID #	POLE LENGTH	BOLT CIRCLE	CAMERA BRACKET LENGTH	YEAR INSTALLED
082-229-A	32'	24"	20' HORIZ	

### 2018 TRAFFIC COUNTS

A.M. PEAK HOUR (P.M. PEAK HOUR)

145 (207)	93 (150)
922 (1284)	739 (1012)
226 (189)	32 (18)
208 (267)	1151 (962)
139 (133)	
642 (244)	182 (215)



ENGINEER		TRAFFIC DESIGN		ELECTRICAL DESIGN		REV #		INTERSECTION # 082-229	
J. VOGT		J. VOGT		NABIL CHOWDHURY					
D. VERONESI		D. VERONESI		RAJA POLININI		ENERGY BY - CITY		ADDRESS #	
G. PALMER		G. PALMER		JORGE KULJIS		MAINT LEVEL 1		SERVICE POLE - CL&P #3460	
MARK F. MAKUCH		MARK F. MAKUCH		MARK F. MAKUCH		UNMETERED SERVICE			

NO. DATE REVISION DESCRIPTION

LEGEND:

- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PEDESTAL MOUNTING
- PEDESTRIAN PUSH BUTTON & SIGN
- DIRECTIONAL ARW. FOR PUSH BUTTON
- TRAFFIC SIGNAL FACE
- EXISTING TRAFFIC SIGNAL FACE
- DET. LEADS IN SAW CUT
- PROPOSED RMC (RIGID METAL CONDUIT)
- EXISTING RMC (RIGID METAL CONDUIT)
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- VIDEO DETECTION ZONE
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- LOOP DETECTOR
- SYSTEM DETECTOR
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- VIDEO DETECTOR
- AUDIO DETECTOR
- VC VIDEO CAMERA CABLE
- CABLE CLOSURE
- WIRELESS SENSOR
- WIRELESS RECEIVER
- WIRELESS TRANSCIVER
- GUY WIRE
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 66 (WASHINGTON ST.)  
AT ROUTE 3 (NEWFIELD ST.)  
& VINE STREET

TOWN: MIDDLETOWN

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

SHEET NO.

PROJECT NO. 0172-0476

DRAWING NO. TCS-#

SHEET NO.

SCALE 1" = 40'